# ROWAN COUNTY REPORT OF ENDANGERED, THREATENED, AND SPECIAL CONCERN PLANTS, ANIMALS, AND NATURAL COMMUNITIES OF KENTUCKY

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# Kentucky State Nature Preserves Commission Key for County List Report

Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

### **STATUS**

KSNPC: Kentucky State Nature Preserves Commission status:

USESA: U.S. Fish and Wildlife Service status:

SOMC = Species of Management Concern

## **RANKS**

GRANK: Estimate of element abundance on a global scale:

G1 = Critically imperiled GU = Unrankable

G2 = Imperiled G#? = Inexact rank (e.g. G2?)
G3 = Vulnerable G#Q = Questionable taxonomy

G4 = Apparently secure G#T# = Infraspecific taxa (Subspecies and variety abundances are coded with a 'T' suffix; the 'G'

G5 = Secure portion of the rank then refers to the entire species)

GH = Historic, possibly extinct GNR = Unranked GX = Presumed extinct GNA = Not applicable

SRANK: Estimate of element abundance in Kentucky:

S1 = Critically imperiled SU = Unrankable Migratory species may have separate ranks for different

S2 = Imperiled S#? = Inexact rank (e.g. G2?) population segments (e.g. S1B, S2N, S4M):

S3 = Vulnerable S#Q = Questionable taxonomy S#B = Rank of breeding population
S4 = Apparently secure S#T# = Infraspecific taxa S#N = Rank of non-breeding population
S5 = Secure SNR = Unranked S#M = Rank of transient population

SH = Historic, possibly extirpated SNA = Not applicable

SX = Presumed extirpated

### **COUNT DATA FIELDS**

# OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

- E currently reported from the county
- H reported from the county but not seen for at least 20 years
- F reported from county & cannot be relocated but for which further inventory is needed
- X known to be extirpated from the county
- U reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

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| County     | Taxonomic Group   | Scientific name   | Common name  | Statuses                 | Ranks                              |          | # of | Occ | urren | ces |
|------------|---|---|--|--------------------------|------------------------------------|----------|------|-----|-------|-----|
| ŀ          | Habitat   |   |  |                          |                                    | Е        | Н    | F   | Χ     | U   |
| Rowan      | Mosses<br>A calciphile, on dry, exposed rocks                             | Abietinella abietina<br>s, soil, or turf on sand of partially stabilized dunes, amo                                     | Wire Fern Moss<br>ong talus at the base of cliffs, or on humus in open co  | T /<br>oniferous stands. | G4G5 / S2?                         | 1        | 0    | 0   | 0     | 0   |
| Rowan      | Mosses<br>On wet soil at the edge of ditches                              | Bryum cyclophyllum or among roots of trees subject to inundation (Crum ar   | nd Anderson). In KY, thin soil on limestone outcrop.                       | E/                       | G4G5 / S1?                         | 1        | 0    | 0   | 0     | 0   |
|            |   | Neckera pennata monly on the trunks of trees, sometimes on rock, rarely tone ravines, usually noted as narrow, on bark. | y on logs or stumps, in coniferous forests, often in co                    | T /<br>oves and wind ga  | G5 / S2?<br>ps in the mountains (C | 1<br>rum | 0    | 0   | 0     | 0   |
| Rowan      | Mosses<br>On soil humus and rocks in moist                                | Polytrichum pallidisetum conditions or hardwood forests.  | A Hair Cap Moss  | Τ/                       | G4 / S2?                           | 1        | 0    | 0   | 0     | 0   |
| Rowan<br>E | Vascular Plants<br>Bogs, swamps, savannas (Weakle                         | Bartonia virginica<br>ey 1998); dry or wet acid soil; in KY, mossy seeps.   | Yellow Screwstem   | Τ/                       | G5 / S2                            | 4        | 0    | 0   | 0     | 0   |
| Rowan<br>F | Vascular Plants<br>PLAINS, PRAIRIES AND ROCKY                             | Bouteloua curtipendula<br>HILLS.  | Side-oats Grama  | S/                       | G5 / S3?                           | 1        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>Dry rocky woods on mountain sum                        | Calamagrostis porteri ssp. porteri nmits.   | Porter's Reedgrass   | Τ/                       | G4T4 / S2S3                        | 6        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>Sphagnous bogs, fens, savannas                         | Calopogon tuberosus and wet shores; in KY, dry sandy pine (-oak) woods ar   | Grass Pink<br>nd swamps  | E/                       | G5 / S1                            | 0        | 1    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>Calcareous bluffs and rocks (Glea                      | Cheilanthes alabamensis son & Cronquist 1991).  | Alabama Lipfern  | H /                      | G4G5 / SH                          | 0        | 1    | 0   | 0     | 0   |
|            | Vascular Plants<br>Springy or muddy soil, usually in s<br>cool wet areas. | Chrysosplenium americanum<br>hade (Gleason & Cronquist 1991); springheads, open   | American Golden-saxifrage wooded seeps, seepage banks of spring-fed stream | T /<br>s, seasonally we  | G5 / S2? sandstone rocks, rills    | 1        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>COOL MOIST WOODS AND OPE                               | Circaea alpina<br>ENINGS INCLUDING MESIC WOODED RAVINES.  | Small Enchanter's Nightshade   | S/                       | G5 / S3                            | 1        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>Mesophytic forests on annually inc                     | Cypripedium kentuckiense undated floodplains of mid-sized or rarely large streams                                       | Kentucky Lady's-slipper s in sandy alluvium.                               | E/SOMC                   | G3 / S1S2                          | 2        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>SHORES, MEADOWS, FIELDS A                              | Dichanthelium boreale<br>ND THICKETS, OPEN PINE WOODLANDS, OPENIN   | Northern Witchgrass<br>GS ON SANDSTONE RIDGE TOPS.                         | S/                       | G5 / S2S3                          | 1        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>ACIDIC, ORGANIC-RICH BOGS,                             | Dryopteris carthusiana<br>SWAMPS, LESS FREQUENTLY IN MOIST ROCKY F  | Spinulose Wood Fern<br>RAVINES AND RICH FORESTS (WEAKLEY 1998).            | S/                       | G5 / S3                            | 0        | 1    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>MESIC RAVINE FORESTS.                                  | Erythronium rostratum   | Yellow Troutlily   | S/                       | G5 / S2S3                          | 1        | 0    | 0   | 0     | 0   |
| Rowan<br>F | Vascular Plants<br>Reported in meadows and damp v                         | Gentiana flavida woods; in KY, prairies and open woodlands.   | Yellow Gentian   | E/                       | G4 / S1S2                          | 1        | 1    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>Marhes, pond margins and alluvia                       | Gratiola viscidula I woods (Fernald 1970); wet streambanks.   | Short's Hedgehyssop  | S/                       | G4G5 / S3                          | 1        | 0    | 0   | 0     | 0   |
| Rowan      | Vascular Plants<br>Openings in seasonally moist fore                      | Lilium philadelphicum sts, prairies and roadsides.  | Wood Lily  | Τ/                       | G5 / S2S3                          | 1        | 2    | 0   | 0     | 0   |

Data Current as of February 2006

| County | Taxonomic Group   | Scientific name   | Common name  | Statuses                      | Ranks                                | # of Occurrences |   |   |   |   |
|--------|---|---|--|-------------------------------|--------------------------------------|------------------|---|---|---|---|
|        | Habitat   |   |  |                               |                                      | Е                | Н | F | Χ | U |
| Rowan  |   | Melampyrum lineare var. latifolium luding dry to dry-mesic second growth woods, road edges a  | American Cowwheat  | Т/                            | G5T5 / S2                            | 0                | 1 | 0 | 0 | 0 |
| Rowan  | Vascular Plants   | Monarda punctata R THE COASTAL PLAIN, WEEDY IN SOME AREAS.  | Spotted Bee-balm   | H /                           | G5 / SH                              | 0                | 0 | 1 | 0 | 0 |
| Rowan  |   | Podostemum ceratophyllum TACHED TO ROCKS IN RAPIDS OF LARGER RIVERS   | Threadfoot   | S/                            | G5 / S3                              | 6                | 0 | 0 | 0 | 0 |
| Rowan  | Vascular Plants Open bogs and wet marshy mead                         | Pogonia ophioglossoides<br>ows, grassy seepage slopes.  | Rose Pogonia   | E/                            | G5 / S1                              | 0                | 1 | 0 | 0 | 0 |
| Rowan  | Vascular Plants Open woodlands and thickets.                          | Prenanthes alba   | White Rattlesnake-root                                       | E /                           | G5 / S1                              | 0                | 1 | 0 | 0 | 0 |
| Rowan  | Vascular Plants Swamps, bogs and streamsides.                         | Scirpus expansus  | Woodland Beakrush  | E/                            | G4 / S1S2                            | 1                | 0 | 0 | 0 | 0 |
| Rowan  |   | Scutellaria saxatilis talus slopes, and bluffs, usually sandstone substrate.  | Rock Skullcap  | Т/                            | G3 / S2S3                            | 1                | 1 | 0 | 0 | 0 |
| Rowan  | Vascular Plants Forests of mountain summits and                       | Solidago roanensis openings including roadbanks.  | Roan Mountain Goldenrod                                      | Т/                            | G4G5 / S1S2                          | 0                | 0 | 1 | 0 | 0 |
| Rowan  | Vascular Plants Rich mountain woods.                                  | Streptopus lanceolatus  | Rosy Twisted-stalk   | H /                           | G5T5? / SH                           | 0                | 2 | 0 | 0 | 0 |
| Rowan  | Vascular Plants Cool mesic streambanks and lime                       | Taxus canadensis stone bluffs.  | Canadian Yew   | Т/                            | G5 / S2S3                            | 1                | 0 | 0 | 0 | 0 |
| Rowan  | Vascular Plants Dry mesic forests with limestone of                   | Thaspium pinnatifidum putcropping.  | Cutleaf Meadow-parsnip                                       | T/ SOMC                       | G2G3 / S2S3                          | 10               | 0 | 0 | 0 | 0 |
| Rowan  | Vascular Plants<br>SHALLOW QUIET WATERS AND                           | Vallisneria americana<br>O SHORES.  | Eelgrass   | S/                            | G5 / S2S3                            | 1                | 0 | 0 | 0 | 0 |
| Rowan  | Freshwater Mussels  | Alasmidonta marginata   | Elktoe   | T/SOMC                        | G4 / S2                              | 1                | 1 | 0 | 0 | 0 |
|        | 1914). Sometimes found in lakes of several inches to two feet. Buchan | reams but more typical of smaller streams (Buchanan 1980 connected to rivers. Parmalee (1967) reported the preferred and (1980) found this species to be common in gravel and common and River than in small streams. | d habitat to be small streams with good current              | sand or gravel bo             | ttoms, and depth of                  | oe               |   |   |   |   |
| Rowan  |   | <i>Epioblasma torulosa rangiana</i><br>RRENT AND SUBSTRATE OF SAND AND/OR GRAVEL II   | Northern Riffleshell<br>N SMALL TO MODERATE-SIZE RIVERS (CLA | E / LE<br>RKE 1981, WATT      | G2T2 / S1<br>ERS 1987).              | 0                | 0 | 0 | 1 | 0 |
|        | Occurs in medium-sized streams t                                      | Epioblasma triquetra to large rivers generally on mud, rocky, gravel, or sand sub-  | Snuffbox<br>strates in flowing water (Baker 1928, Buchanan   | E / SOMC<br>1980, Johnson 1   | G3 / S1<br>978, Murrary and Leon     | 3<br>ard         | 0 | 1 | 0 | 0 |
| Rowan  | Freshwater Mussels  | Fusconaia subrotunda subrotunda<br>LS IN LARGE RIVERS AND LARGE TO MEDIUM-SIZED S   | Longsolid<br>STREAMS (AHLSTEDT 1984, GOODRICH AN             | S /<br>D VAN DER SCH          | G3T3 / S3<br>ALIE 1944, NEEL AND     | 1                | 0 | 0 | 0 | 0 |
| Rowan  | Freshwater Mussels Large rivers in habitats ranging fro               | Lampsilis abrupta om silt to boulders, but apparently more commonly from gra n and Parmalee 1983, Buchanan 1980), but never standing  |  | E / LE<br>ep water with curre | G2 / S1<br>ent velocity ranging from | 1<br>m           | 0 | 0 | 0 | 0 |

Data Current as of February 2006

| County       | Taxonomic Group  | Scientific name  | Common name   | Statuses                              | Ranks                                |         | # of | Осс | urren | ices |
|--------------|--|--|---|---------------------------------------|--------------------------------------|---------|------|-----|-------|------|
| H            | abitat   |  |   |                                       |                                      | Е       | Н    | F   | X     | U    |
| Rowan<br>Us  | Freshwater Mussels sually found in large rivers in cur                             | Plethobasus cyphyus rent on mud, sand, or gravel bottoms at depth of 1-2 m   | Sheepnose<br>eters or more (Baker 1928, Parmalee 1967, G                    | E / C<br>Gordon and Layzer 1989       | G3 / S1<br>9).                       | 3       | 0    | 0   | 0     | 0    |
| Rowan<br>IN  | Freshwater Mussels<br>IHABITS SMALL TO MEDIUM-S                                    | Villosa lienosa<br>SIZED RIVERS, USUALLY IN SHALLOW WATER ON A   | Little Spectaclecase<br>A SAND/MUD/DETRITUS BOTTOM (PARMAI                  | S /<br>LEE 1967, GORDON A             | G5 / S3S4<br>ND LAYZER 1989).        | 1       | 0    | 1   | 0     | 0    |
| Rowan<br>St  | Insects<br>MALL STREAMS IN THE NORT  | Hansonoperla hokolesqua<br>'H FORK TRIPLETT CREEK AND NEARBY DRAINAG   | A Perlid Stonefly ES.   | S/                                    | G2 / S2                              | 5       | 0    | 0   | 0     | 0    |
|              |  | Satyrium favonius ontario<br>dges with evergreen or deciduous oaks (Opler and Mal<br>nium arboretum) or dogbane (Apocynum cannabium) ( |   | S /<br>ck jack oak ( <i>Quercus r</i> | G4T4 / S2<br>narilandica) and a nect | 1<br>ar | 0    | 0   | 0     | 0    |
|              | Fishes<br>ARGE STREAMS AND RIVERS<br>ARREN 1986, ETNIER AND ST                     | Noturus stigmosus<br>IN MODERATE TO SWIFT CURRENT OVER GRAVE<br>ARNES 1993).   | Northern Madtom<br>L AND SAND, AND SOMETIMES DEBRIS OF                      | S / SOMC<br>R PONDWEED FOR C          | G3 / S2S3<br>OVER (BURR AND          | 2       | 2    | 0   | 0     | 0    |
| Rowan<br>Ll' | Fishes<br>VES IN CLEAR, SMALL TO MO  | Percopsis omiscomaycus DERATE-SIZE STREAMS IN POOLS OR RACEWAYS  | Trout-perch<br>S OVER CLEAN SAND OR MIXED SAND AN                           | S / SOMC<br>D GRAVEL BOTTOMS          | G5 / S3<br>S.                        | 0       | 1    | 0   | 0     | 0    |
| Rowan        | Amphibians<br>ONFINED TO RUNNING WATE  | Cryptobranchus alleganiensis alleganiensis<br>RS OF FAIRLY LARGE STREAMS AND RIVERS.   | Eastern Hellbender  | S/SOMC                                | G3G4T3T4 / S3                        | 3       | 1    | 0   | 0     | 0    |
| Rowan<br>Bu  | Reptiles<br>urrows in soft soils of upland oak                                     | Lampropeltis triangulum elapsoides and oak-hickory forests, may also occur in oak-pine.  | Scarlet Kingsnake   | S/                                    | G5T5 / S3                            | 0       | 2    | 0   | 0     | 0    |
|              |  | Accipiter striatus<br>D, CONIFEROUS, MIXED, OR DECIDUOUS, PRIMAR<br>GH VARIOUS HABITATS, MAINLY ALONG RIDGES, I                        |   |                                       | G5 / S3B,S4N<br>TION OF RANGE (B83   | 2       | 0    | 0   | 0     | 0    |
| Rowan        | Breeding Birds   | Cistothorus platensis illy where wet or boggy, sedge marshes, locally in dry c   | Sedge Wren  | S /                                   | G5 / S3B                             | 0       | 1    | 0   | 0     | 0    |
| Rowan        | Breeding Birds   | Gallinula chloropus t rivers, lakes, ponds, mangroves, primarily in areas of   | Common Moorhen  | Т/                                    | G5 / S1S2B                           | 1       | 0    | 0   | 0     | 0    |
|              |  | Ixobrychus exilis<br>S, PRIMARILY FRESHWATER, LESS COMMONLY IN<br>USHES OR OTHER WOODY GROWTH. INFREQUEN                               |   |                                       | G5 / S1S2B<br>REFERENCE FOR          | 1       | 0    | 0   | 0     | 0    |
| Rowan        | Breeding Birds   | Lophodytes cucullatus  ARSHES, AND ESTUARIES; WINTERS MOSTLY IN F  | Hooded Merganser  | T /                                   | G5 / S1S2B,S3<br>S4N                 | 1<br>OM | 0    | 0   | 0     | 0    |
| 01           | INA).  |  |   |                                       | ,                                    |         |      |     |       |      |
|              |  | Tyto alba<br>NTRY IN A WIDE VARIETY OF SITUATIONS, OFTEN<br>ALSO ROOSTS IN NEST BOXES IF AVAILABLE (A8                                 | ,   | S /<br>1NA). IN NORTHERN              | G5 / S3<br>WINTER OFTEN              | 0       | 1    | 0   | 0     | 0    |
|              | Mammals<br>afinesque's big-eared bats use a<br>uildings, etc. Apparently less fred | Corynorhinus rafinesquii a variety of sites for roosting including caves, protected quently use tree cavities.                         | Rafinesque's Big-eared Bat sites along clifflines, old mine portals, abando | S / SOMC<br>ned tunnels, cisterns, c  | G3G4 / S3<br>old or seldom used      | 8       | 0    | 0   | 0     | 0    |
| Rowan<br>Th  | Mammals<br>HE VIRGINIA BIG-EARED BAT   | Corynorhinus townsendii virginianus<br>IS A CAVE-DWELLING SPECIES THAT HAS BEEN S<br>OTECTED SITES ALONG CLIFFLINES, ESPECIALLY        |   |                                       | G4T2 / S1<br>WILL USE SMALL          | 1       | 1    | 0   | 0     | 0    |

Data Current as of February 2006

County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky Kentucky State Nature Preserves Commission

| County         | Taxonomic Group                         | Scientific name   | Common name                                   | Statuses | Ranks      | # of Occurrences |   |   |   |   |
|----------------|---|---|---|----------|------------|------------------|---|---|---|---|
| Hab            | oitat                                   |   |   |          |            | Е                | Н | F | X | U |
| Rowan<br>Prim  | Mammals<br>ne habitat unknown. Seems to | Mustela nivalis<br>o occur in farmland.                   | Least Weasel                                  | S/       | G5 / S2S3  | 1                | 0 | 0 | 0 | 0 |
| Rowan<br>India | Mammals ana bats use primarily caves    | Myotis sodalis for hibernacula, although they are occasio | Indiana Bat onally found in old mine portals. | E/LE     | G2 / S1S2  | 2                | 0 | 0 | 0 | 0 |
| Rowan          | Communities                             | Acidic sub-xeric forest                                   |   | 1        | GNR / S5   | 1                | 0 | 0 | 0 | 0 |
| Rowan          | Communities                             | Knobs shale barrens                                       |   | 1        | GNR / S2S3 | 1                | 0 | 0 | 0 | 0 |

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